

GONCHAROV, V.I., kand.med.nauk

Treatment of functional disorders in pulmonary tuberculosis.
Probl. tub. 41 no.10:49-53 '63. (MIRA 17:9)

1. Iz kliniki legochnogo tuberkuleza (zav. - kand. med.nauk V.K. Dargevich) Instituta meditsinskoy klimatologii i klimatoterapii imeni Sechenova (dir. B.V. Bogutakiy).

Goncharov, V. I.

USSR/ Engineering - Gear Rims

Card 1/1 Pub. 128 - 10/33

Authors : Goncharov, V. I.

Title : Working large gear wheels

Periodical : Vest. mash. 36/1, 35-38, Jan 1956

Abstract : Devices, technological processes and methods used in laying out and milling teeth on large gear wheels at the Kolomenski heavy machine construction plant, are discussed and described. Drawings and diagrams showing several methods of marking, jig boring, checking and milling gear-rims with end and disc cutters, are given. Illustration; drawings; diagrams; table.

Institution :

Submitted :

GONCHAROV, V.I.

Some results of the competition for designing and introducing new equipment. Priborostroenie no.10:28-30 O '58. (MIRA 11:10)

1. Chlen gorodskoy konkursnoy komissii Leningradskogo oblastnogo nauchno-tekhnicheskogo obshchestva Priborprom.
(Measuring instruments)

25(5)

SOV/117-59-2-14/27

AUTHOR: Goncharov, V.I., Engineer

TITLE:

Experience in the Introduction of the Group Machining of Parts in Instrument and Equipment Construction
(Opyt vnedreniya gruppovoy obrabotki detalej v priboro - i apparatostroyenii)

PERIODICAL:

Mashinostroitel', 1959, Nr 2, pp 23-25 (USSR)

ABSTRACT:

The opinion that automation and mechanization of work processes can not be implemented in small-scale serial production was refuted by the work of a scientific research Institute, and eight instrument construction plants of the Leningrad Sovnarkhoz in 1957-1958. A considerable increase in production was secured, and the number of nomenclatures was reduced 5.5 times. The introduction of the group method of machining comprised about 70,000 parts, which were broken down into 425 groups characterized by geometrical similarity,

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Experience in the Introduction of the Group Machining of Parts in
in Instrument and Equipment Construction

and consequently by similarity of technological pro-
cess of machining. The author presents and explains
a table on the sequence of preparatory work for con-
verting production to the group method. There is 1
table and 1 diagram.

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9 (6)

AUTHOR:

Goncharov, V. I., Engineer

SOV/119-59-8-8/15

TITLE:

Standardization Prerequisites for Rapid Mastering of New Products
in Instrument Building

PERIODICAL:

Priborostroyeniye, 1959, Nr 8, pp 22-25 (USSR)

ABSTRACT:

In the case of the metals at present employed for the planning and design of new instruments, the use of standardized parts, units, and blocks is not provided for. On the basis of table 1, in which the large number of radiotechnical parts and materials used in some instrument-factories, the necessity of introducing individually constructed units is stressed. The introduction of such units took a long time in the radioindustry, and the diagram in figure 1 shows the reduction of work caused by the introduction of individually constructed units. Thus, within a period of from 5 to 6 and more years, the energy expended dropped down to 6 to 12 %. Further, the analysis of many instruments and apparatus showed that 40 to 60 % standardized parts and only 10 % special parts would have to be used. Suggestions are then made in five points for the standardization of constructional elements in instruments and apparatus. Further, the technological aspect of the problem is investigated, and the diagram in figure 2 shows

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Standardization Prerequisites for Rapid Mastering of New Products in Instrument Building SOV/119-59-8-8/15

the reduction of the work expended in some instrument factories. In the summary, which is given at the end, the necessity of introducing a standardization such as is described above in apparatus-instrument building in the course of general automation is stressed, and mention is made of S. P. Mitrofanov, who was awarded the Lenin Prize and who introduced the method of "group technology." There are 2 figures and 2 tables.

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S/119/60/000/010/012/014
B012/B063

AUTHORS: Bulovskiy, P. I., Doctor of Technical Sciences,
Goncharov, V. I., Engineer

TITLE: Scientific-technical Conference on the Advanced Technology
of Instrument Construction

PERIODICAL: Priborostroyeniye, 1960, No. 10, pp. 27 - 28

TEXT: The 1-ya Leningradskaya nauchno-tehnicheskaya konferentsiya po progreessivnoy tekhnologii (First Leningrad Scientific-technical Conference on Advanced Technology) was held from April 11 to 14, 1960. It was organized by the Leningradskoye oblastnoye pravleniye NTO Priborprom (Leningrad oblast' Board of the NTO Priborprom) and the Leningradskiy dom nauchno-tehnicheskoy propagandy (Leningrad House of Scientific and Technical Propaganda). It was attended by 452 representatives of 180 organizations from 36 cities of the USSR, and 20 lectures were delivered. Engineer V. Ya. Nazarov spoke about the cooperation between design offices in the instrument-building industry for the purpose of developing and introducing an advanced technology. Engineer ✓

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Scientific-technical Conference on the
Advanced Technology of Instrument
Construction

S/119/60/000/010/012/014
B012/B063

V. I. Goncharov spoke about experience gathered with the automation of manufacturing processes in the instrument-building industry on the basis of a group technology. A. I. Neymark, Doctor of Technical Sciences, gave a report on the use of production lines in this branch of industry.

Engineer A. S. Smirnov's lecture dealt with "Standardization as a Pre-requisite to the Development of Technological Constructions".

V. M. Bogdanov gave a report on practical experience gathered in the mechanization and automation of the production and assembly of some structural elements of small electric motors. N. N. Vasil'yev spoke about experience gathered in the mechanization of the production of instrument parts in small series. Engineer Z. G. Mednikov held a lecture on the experience gathered in the production of blanks by a wide application of an advanced technology. Engineer N. G. Dubrovin spoke about the industrial application of the group method in cold-pressing and drop forging. Engineer D. G. Selivanov spoke about the effect of the construction of plastic parts on the accuracy of their dimensions.

P. D. Yermolayev stressed the great advantages of group production in pressure shaping. D. A. Vayntraub, Candidate of Technical Sciences,

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reported on the experience gathered with the increase of accuracy and performance in cold-pressing in the instrument-building industry. Engineer B. A. Maksiminikh spoke about the production of improved fluxes and solders for soldering metals in a great variety of combinations. Engineer M. A. Trzhetsyak spoke about the characteristics of element construction and the technical and economic indices of automatic machines. P. I.

Bulovskiy, Doctor of Technical Sciences, dealt with problems of assembly work in the instrument-building industry. Yu. G. Shneyder, Candidate of Technical Sciences, spoke about the behavior of parts worked on the basis of plastic deformation during operation. Engineer V. A. Guzhov reported on the use of ultrasonic waves for the removal of fat, mechanical impurities, solid coatings, and corrosion products from workpieces. Engineer V. A. Khrul'kov and Engineer Ya. B. Flekser held a lecture on the treatment of permanent magnets. Engineer A. K. Monakov and Engineer A. N. Lukichev spoke about the interchangeability of parts and the assembly of instruments. A resolution adopted by the Conference stressed the great importance of the further development of the technology of instrument construction and gave proper recommendations to producers, institutes, the LSNKh, and the Gosplan USSR.

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GONCHAROV, V. I.

"Experiences in automating production processes on the basis of group technology"

Paper presented at the Second International Measurements and Instruments Conference, (IMEKO), Budapest, 25 June - 1 July 1961.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

GLUSHENKOVA, Ye.V.; LIYEVA, V.Yu.; SEMENOV, S.S.; ZABRODKIN, A.G.;
GONCHAROV, V.I.; KALASHNIKOVA, Ye.B.

Adhesive resins from shale phenols of nonalkaline separation.
Trudy VNIIT no.1283-89 '63. (MIRA 18:11)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

YEFIMOV, V.V.; GONCHAROV, V.M.; FERANDI, K.I.; TROITSKIY, Yu.L.

Hole boring by means of electric core drills with flushing in
two Karaganda Basin mines. Ugol' 40 no.12:61-62 D '65.

(MIRA 18:12)

1. Karagandinskiy nauchno-issledovatel'skiy ugol'nyy institut.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

MURZIN, Leonid Gavrilovich; GONCHAROV, Viktor Mikhaylovich; GONCHAROV,
S.P., kand.tekhn.nauk, red.; VERINA, G.P., tekhn.red.

[Fuel, oil, water; for diesel locomotives] Toplivo, smazka, voda;
dlia teplovozov. Moskva, Gos.transp.zhel-dor.izd-vo, 1959.
127 p. (MIRA 12:9)

(Diesel locomotives--Maintenance and repair)

GONCHAROV, V.M., inzh.; LOBANOV, V.V., inzh.; IZAKSON, G.M., otv.
za vypusk

[Economic use of lubricants for locomotive axles] Ekonomika
osevykh masel na parovozakh. Moskva, TSentr.dom tekhn.
zhelez.dor.transp., 1959. 32 p. (Radiolektsiia, no.2 (74)).

(MIRA 14:2)

(Locomotives--Lubrication)

GONCHAROV, Viktor Mikhaylovich; MURZIN, Leonid Gavrilovich; MIRONOV,
M.I., inzh., retsenzent; BLIDCHENKO, I.F., inzh., retsenzent;
MOSKVIN, G.N., inzh., retsenzent; SOBAKIN, V.V., inzh., red.;
USENKO, L.D., tekhn. red.

[Fuel, lubricants, and water] Toplivo, smazka, voda. Izd.2., perer.
i dep. Moskva, Vses.izdatel'sko-poligr.ob"edinenie M-va putei soob-
shcheniya, 1961. 158 p. (MIRA 14:12)
(Railroads—Equipment and supplies)

VORONOV, Nikolay Mikhaylovich; BLIDCHENKO, Ignatiy Fedorovich;
GONCHAROV, Viktor Mikhaylovich; LOBANOV, Vasiliy
Vasil'yevich; MERMUR'YEV, Gennadiy Dmitriyevich;
BLAGOVIDOV, I.F., kand. tekhn. nauk, retsenzent; EMINOV,
Ye.A., inzh., retsenzent; GROMOV, G.N., inzh., retsenzent;
LOSIKOV, B.V., prof., red.; SOBAKIN, V.V., inzh., red.;
MEDVEDEVA, M.A., tekhn. red.

[Petroleum fuel and lubricants in railroad transportation;
handbook] Neftianoe toplivo i smazochnye materialy na
zhelezodorozhnom transporte; spravochnik. Moskva, Trans-
zhel'dorizdat, 1962. 322 p. (MIRA 16:6)
(Petroleum products) (Railroads--Fuel)

BELYAYEV, V.G.; VEDERNIKOV, I.I.; GONCHAROV, V.N.; PATEYEV, A.Kh.;
RUMYANTSEVA, M.B., red.; FORMALINA, Ye.A., tekhn. red.

[Using high-frequency current for defrosting frozen sprat
briquets] Defrostatsiya briketov morozhenoi kil'ki tokom
promyshlennoi chastoty. Moskva, Izd-vo zhurnala "Rybnoe
khoziaistvo" VNIRO, 1962. 21 p. (MIRA 17:3)

1. Sotrudniki Kaspiyskogo nauchno-issledovatel'skogo in-
stituta morskogo rybnogo khozyaystva i okeanografii, Astrakhan'
(for Belyayev, Vedernikov).

GONCHAROV, Vasiliy Nikandrovich

[Propaganda of economic knowledge] Propaganda ekonomicheskikh znanii. Barnaul, Altaiskoe knizhnoe izd-vo, 1963. 54 p. (MIRA 17:9)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

GONCHAROV, V. N.

"Mechanism of a Uniform Turbulent Current Directed by a Channel Bed (According to Data of an Experiment)," Trudy Energet Instituta imeni I. G. Yes'mana, Vol VII, 1946 (49-64).
(Meteorologiya i Gidrologiya, No 6 Nov/Dec 1947)

SO: U-3218, 3 Apr 1953

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

GONCHAROV, V.N.; LAPSHIN, G.N., redaktor; ZABRODINA, A.A., tekhnicheskiy redaktor

[Uniform turbulent flow] Ravnosernyyi turbulentnyi potok. Lenigrad, Gos.energ.izd-vo, 1951. 145 p. (MLRA 8:11)
(Turbulence) (Hydrodynamics)

GONCHAROV, Vitaliy Nikolayevich, professor, doktor tekhnicheskikh nauk;
CHEBOTAREV, A.I., redaktor; SHATILINA, M.K., redaktor; SOLOVEYCHIK,
A.A., tekhnicheskiy redaktor; BRAYNINA, M.I., tekhnicheskiy
redaktor.

[Principles of the dynamics of river-bed flow] Osnovy dinamiki
ruslovykh potokov. Leningrad, Gidrometeorologicheskoe izd-vo,
1954. 451 p.

(Hydraulics)

(MLP 7:12)

GONCHAROV, V.N.; POLTAVTSEV, V.I.

River bed deformations arising from the construction of reservoirs.
(MILRA 9:8)
Meteor. i gidrol. no.5:44-50 My '56.
(Rivers) (Reservoirs)

GONCHAROV, V. N.

360)

Name & Date Interrogation
06/13/00

Name: Goncharov, Geophysics Faculty '67
 Topographic Hydrology (Problems in Hydrology) (Moscow) 1957. 231 p. 2,400 copies printed.
 Author: A. Z. V. Smirnov and I. P. Shchegolev, Professors.
 Summary: This book is intended for hydrologists and geographers.
 Content: This collection of articles on the hydrology of the
 Soviet Union is dedicated to Professor N. V. Kliapnikov, Doctor of
 Sci., Professor, Head of the Hydrology Department at the
 Institute of Hydrology, Hydrometeorology and Glaciology, Moscow.
 The topics discussed are: 1) the effect of
 climatic conditions on flow volume; 2) the calculation of
 runoff; 3) the nature of river water; 4) compound basins;
 5) extreme levels; 6) flood forecasting; 7) the

effect of hydrological processes on hydrology; and others. References
 are given at the end of each article.

Same or different

Date or average for stream

Shchegolev, G.V. Investigating the Effect of Movement of
Flood WaterBogatyr'ev, B.P. Problems of Geophysical Interpretation in
Hydrology

Seliger, T. I. Problems in Expanding Hydrological Series

Seliger, T. I. and V. I. Polikarov. River Bed Sediments
in the Region of the Foundations on Mountain Streams

Tsvetkov, F. V. Characteristics of Stream Level Station Regime

Spols, P. L. Maximum Flooding as Related to Snow Melting

Card 3/6

FEDOROV, Vladimir Vladimirovich, dotsent, kand.tekhn.nauk; GONCHAROV,
V.M., prof., rezensent; ZERNOV, S.A., inzh., rezensent;
DOMANITSKIY, A.P., red.; VOLCHOV, L.M., tekhn.red.

[Hydrology and investigation of waters] Gidrologija i vodnye
izyskanija. Leningrad, Izd-vo "Technol transport," Leningr.
otd-nie, 1960. 344 p. (MIRA 13:10)
(Hydrology--Research)

GONCHAROV, Vitaliy Nikolayevich; PROSKURYAKOV, B.V., otv. red.; SHATILINA,
M.K., red.; BRAYNINA, M.I., tekhn. red.

[Dynamics of channel streams] Dinamika ruslovykh potokov. Lenin-
grad, Gidrometeoizdat, 1962. 373 p. (MIRA 15:7)
(Stream measurement)

DOMBROVSKIY, Oleg Ivanovich; SHCHEPINSKIY, Askol'd Aleksandrovich;
DUBLYANSKIY, Viktor Nikolayevich; GONCHAROV, Vladilen
Petrovich; IVANOV, Boris Nikolayevich, kand. geogr. nauk;
SOLOMONIK, E.I., kand. ist. nauk, obshchestvennyy red.;
YARMYSH, Yu., red.; ISUPOVA, N., tekhn. red.

[How secrets are revealed; sketches on Krasnopeshchernaya]
Kak raskryvaiutsia tainy; ocherki o Krasnykh peshcherskh.
Simferopol', Krymizdat, 1962. 108 p. (MIRA 15:11)
(Crimea—Caves)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

GONCHAROV, V.P.

N.N.Pirogov's theory of real gases. Ist.i metod.est.nauk
no.1:89-97 '60. (MIRA 14:10)
(Gases, Kinetic theory of)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

LUTOSHKIN, G.S.; YERMILOV, V.I.; DEMIN, A.V.; GONCHAROV, V.P.

Hydraulic fracturing in gas wells and its future uses. Gaz. prom.
5 no.5:1-6 My '60. (MIRA 14:11)
(Gas wells--Hydraulic fracturing)

GONCHAROV, V.P.

Hydraulic fracturing techniques and equipment for oil, injection,
and gas wells in Paleozoic sediments in the Volga Valley portions
of Saratov and Stalingrad Provinces. Trudy VNIGNI no.28:178-193
'60. (MIRA 14:4)

1. Nizhne-Volzhskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
geologo-razvedochnogo neftyanogo instituta.
(Volga Valley—Oil wells—Hydraulic fracturing)

ZAKRYTYY, M.I.; GONCHAROV, V.P.; MINEYEVA, I.D.

Exclusion of bottom waters in oil wells of the Sokolovogorskiy
gas and oil fields. Biul. tekhn.-ekon. inform. Gos. nauch.-
issl. inst. nauch. i tekhn. inform. 17 no.3:21-23 '64.
(MIRA 17:9)

GONCHAROV, V.P.

Seminar on the use of mathematical logic in engineering (1959-1960).
Avtom. i telem. 22 no.2:292-294, F '61. (MIRA 14:4)
(Automatic control—Congresses)

GONCHAROV, V.P.; GORSHKOV, A.K.; BABAYAN, A.I.

Hydraulic fracturing in gas wells. Gaz. delo no.5:10-12 '65.
(MIRA 18:6)

1. Nizhnevolzhskiy nauchno-issledovatel'skiy institut geologii i
geofiziki.

16.9500

77490
SOV/103-21-1-21/22

AUTHOR:

Goncharov, V. P.

TITLE:

Chronicle. Seminar on Technical Applications of Mathematical Logic (1958-1959)

PERIODICAL:

Avtomatika i telemekhanika, 1960, Vol 21, Nr 1, pp 145-148, (USSR)

ABSTRACT:

The seminar took place in the autumn semester, 1958, and in the spring semester, 1959, under the supervision of supernumerary professor V. I. Shestakov. 11 papers were discussed. In a paper, "Concerning the Application of Certain Logic Operators for the Analysis and Synthesis of Systems Containing Differential Loops," A. D. Talantsev presented quite a new logic-algebraic method for investigating the systems with differential loops. The second paper presented by A. D. Talantsev was "Concerning the Analysis and Synthesis of Certain Electrical Circuit Using Special Logic Operators."

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Chronicle. Seminar on Technical Applications
of Mathematical Logic (1958-1959)

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The author derived a method of resolution of $dF(x_1, x_2, \dots, x_n)$, where F is an arbitrary Boolean function of n variables. G. N. Povarov presented a paper "Concerning the Group Invariant of Boolean Functions." In this paper the group \mathcal{J} was investigated, which transforms single-type Boolean Functions into other functions of the same type. In the second paper of this author, "Abstract Algebraic Theory of Cumulative Networks," the G. N. Povarov cumulative theory of networks is explained. This theory serves the analysis of interaction of elements of control circuits. It is shown that the cumulative theory of networks permits generalization of results obtained by other authors. G. N. Povarov gave a paper on "Events and Judgements in Connection With Logic Problems." V. P. Goncharov outlined the paper by Zemanek "Solution of Switching Algebra Equations." Several expressions obtained by Zemanek were discussed. This theory is probably the first attempt to give algebraic representation to the general solution of the Boolean

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Chronicle. Seminar on Technical Applications
of Mathematical Logic (1958-1959)

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algebra equation. Yu. L. Sagalovich gave a lecture, "The Number of Types of Symmetry of Contact (l,k)-Terminal Networks." Using methods of group representation the number $N_{n,k}$ is obtained of types (l,k)-terminal networks of n variables. B. Yu. Pil'chak discussed the problem, "Concerning the Synthesis of Quasi-Nonrepetitive Contact Circuits." V. D. Kazakov discussed "Determining Maximum Number of Simple Implications of an Arbitrary Symmetrical Logic Function of n-Variables." V. R. Telesnin and B. Ya. Falevich described the new contactless circuits for the synthesis of which mathematical logic is used. V. R. Telesnin presented a study, "The Use of Magnetic Matrices for Data Processing." B. Ya. Falevich presented a paper, "An Electronic Machine for Playing the 'Wolf and Sheep game.'" An algorythm of this game was given. The activities of the seminar before October 1958 are explained in Avtomatika i telemekhanika Vol 18, Nr 10, 1957 and Vol 20, Nr 1, 1959.

Card 3/3

POPTSOV, Nikolay Petrovich; POTEKIN, V.V., dotsent, otd.red.; GONCHAROV,
V.P., red.; KAZAKOV, A.I., tekhn.red.

[Principles of modern physics; methods handbook for fourth-course
correspondence students of philosophy faculties at state
universities] Osnovy sovremennoi fiziki; uchebno-metodicheskoe
posobie dlia studentov-zacchinnikov IV kursa filosofskikh fakul'te-
tov gosudarstvennykh universitetov. Izd.2., ispr. i dop. Lenin-
grad, Izd-vo Leningr.univ., 1960. 119 p.

(MIRA 14:2)

(Physics—Philosophy)

3(9)

AUTHOR:

Goncharov, V. P.

SOV/2o-121-5-17/50

TITLE: New Data on the Topography of the Bottom of the Black Sea
(Novyye dannyye o releye dna Chernogo morya)

PERIODICAL: Doklady Akademii nauk SSSR, Vol 121, Nr 5,
pp 830 - 833 (USSR)

ABSTRACT: Hitherto it has been assumed that the topography of the bottom of the Black Sea is known sufficiently well. But this opinion is by far not justified. This paper uses the data obtained by means of the self-recording sounding device **NEL-5** of the expedition ship "Akademik S.Vavilov", mainly in 1956 and partly in 1957. The results of these expeditions not only add to the precision of previously obtained data, but they also supply entirely new data. This paper describes some of the most interesting contours of the bottom of the Black Sea, and attention is concentrated on the least investigated parts of the continental side.

Profile I extending from Kherson ; to

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New Data on the Topography of the Bottom of the
Black Sea

SOV/2o-121-5-17/50

Inebalu intersects the submerged continuation of the Crimea mountains in a distance of 35 km from the shore. Profile II extending from Yalta to Gelendzhik conveys an idea of the continental side of the Crimea peninsula and of the Caucasus. The profile from Sukhumi to Trabzon is the most complicated. Near the shore of Anatolia, a previously unknown ridge was found. Also the continental side between Eregli and ~~Bosporus~~ is very complicated. The central basin of the Black Sea is limited in a very distinct manner by a very complicated continental descent which has very different topographical structures. An exception is found only by the north-western part of the Black Sea and, possibly, the region of Kaliarka-Bosporus where the descent is not steep. The bottom of the basin itself is an example of a nearly perfectly plane surface. The next step of the investigation of the bottom of the Black Sea will be the comparison of the detailed bathymetric and hemorphological maps, and also the solution of the problem of the origin of this interesting submarine

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New Data on the Topography of the Bottom of the
Black Sea

SOV/2o-121-5-17/50

topography. There are 2 figures and 7 references,
which are Soviet.

ASSOCIATION: Chernomorskaya eksperimental'naya nauchno-issledovatel'skaya
stantsiya Instituta okeanologii Akademii nauk SSSR g.Gelendzhik
(Black Sea Experimental Scientific Research Station of
the Institute of Oceanology, AS USSR, Town of Gelendzhik)

PRESENTED: April 14, 1958, by N.M.Strakhov, Academician

SUBMITTED: May 12, 1958

Card 3/3

PHASE I BOOK EXPLORATION: International Geological Congress. 21st, Copenhagen, 1960. Morskaya Geologiya (Marine Geology) Moscow, Izdavo AN SSSR, 1960. 205 p., 2,500 copies printed. (Series: Doklady Sovetskikh Geologov, problema 10)	Sov/5331
Editorial Board: P. L. Bezrukov, Resp. Ed.; A. V. Zavago, V. P. Zenkovich; and G. B. Ulyantsev, Ed. of Publishing House; V. S. Shneyman; Tech. Ed.: V. Karpov.	
Purpose: This book is intended for geologists and oceanographers.	
Coverage: This book contains 18 articles representing the reports given by Soviet geologists at the 21st International Geological Congress. Individual articles deal with the bottom topography, sedimentation, and tectonics of oceans (Western Pacific and Southern Indian), as well as the geomorphology and tectonics of the Black and Caspian Seas, and Soviet sectors of the Baltic. An English summary accompanies each article. No personalities	
Authors: N. M.; L. Ya. Mikhalev, O. B. Ulyantsev, I. B. Andreyeva, A. P. Lisitsyn, and Yu. I. Reprochnik. Results of Seismic-Acoustic Investigations of the Earth's Crust Under Seas and Oceans 35	
Saidova, Eh. M. Stratigraphy of Sediments and the Paleogeography of the Northwestern Pacific and the Far Eastern Seas of the USSR According to Sea-Bottom Foraminifers 59	
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Dorzhmanovich, D. Ye. Recent Shelf Deposits in the Marginal Seas of Northeast Asia 116	
Elensov, N. V. The Geology of the Barents Sea 123	
Gorbakova, T. I. Sediments in the Norwegian Sea 132	
Teketsera, M. V. Study of the Diagenesis of Some Marine Sediments 140	
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Averbukh, N. A. , T. L. Boldyrev, and V. P. Zenkovich. Erosion by River on Sediment Streams Along Shores 164	
Budanov, V. I. , A. S. Ionin, P. A. Karlin, and V. S. Machodov. Recent Vertical Movements of Shorelines in the Soviet Union 175	
Ientzilov, O. K. Types and Formation of Lagoons on Recent Seashores 188	

GONCHAROV, V.P.

Presence of volcanoes on the bottom of the Black Sea. Okeanologija
2 no.1:106-108 '62. (MIRA 15:2)

1. Chernomorskaya eksperimental'naya nauchno-issledovatel'skaya
stantsiya Instituta okeanologii AN SSSR.
(Black Sea--Volcanoes)

GONCHAROV, V.P.; MIKHAYLOV, O.V.

New data on the bottom relief of the Mediterranean Sea.
Okeanologija 3 no.6:1056-1060 '63. (MIRA 17:4)

1. Chernomorskaya eksperimental'naya nauchno-issledovatel'skaya
stantsiya Instituta okeanologii AN SSSR.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

GONCHAROV, V.P.; MIKHAYLOV, O.V.

Methods for the detailed echo sounding of the bottom relief.
Trudy Inst. okean. 68:196-201 '64. (MIRA 17:6)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

MELIK-SARKISYAN, S.S., GONCHAROV, V.P.; SISAKYAN, N.M.

Amino acid activating enzymes of the chloroplasts of higher plants.
Biokhimia 30 no.18183-188 Ja-F '65. (MIRA 18:6)

1. Institut biokhimi imeni Bakha AN SSSR, Moskva.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

GONCHAROV, V.P.; YEMEL'YANOVA, L.P.; MIKHAYLOV, O.V.; TSYPLEV, Yu.I.

Areas and volumes of the Mediterranean and Black Seas. Okeano-
logija 5 no.6:987-992 '65. (MIRA 19:1)

1. Chernomorskaya eksperimental'naya nauchno-issledovatel'skaya
stantsiya i Institut okeanologii AN SSSR. Submitted March 16,
1965.

ACC NR: AP6030462

(N)

SOURCE CODE: UR/0213/66/006/004/0707/0711

AUTHOR: Goncharov, V. P.; Mikhaylov, O. V.

ORG: Black Sea Experimental Scientific-Research Station of the Institute of Oceanology, AN SSSR (Chernomorskaya Eksperimental'naya nauchno-issledovatel'skaya stantsiya, Institut okeanologii AN SSSR)

TITLE: Depth corrections for ground velocity change in echo-sounding in the Black and Mediterranean Seas

SOURCE: Okeanologiya, v. 6, no. 4, 1966, 707-711

TOPIC TAGS: hydrology, water regime, sound propagation, sound velocity, echo sounder, UNDERWATER ACOUSTICS

ABSTRACT: The processing of the observational data has shown that seasonal variations of the hydrological regime in the Mediterranean and Black Seas introduces insignificant deviations in the mean values of vertical sound velocities. To correct depths obtained by echo-sounders in the Mediterranean and Black Seas, standard generalized diagrams of corrections are suggested that can be applied to correcting depths from 100 m in the Black Sea and from 150 m in the Mediterranean Sea down to maximum depths. Orig. art. has: 3 tables.

SUB CODE: 08/ SUBM DATE: 16Mar65/ ORIG REF: 005/ OTH REF: 002

Card 1/1

UDC: 551.460.18

ACC NR: AP6029012

SOURCE CODE: UR/0413/66/000/014/0010/0010

INVENTOR: Kaufman, M. Sh.; Aleshin, V. A.; Pridin, G. M.; Goncharov, V. P.; Faretzkiy, M. I.; Sirotinskiy, E. S.; Soloveychik, P. M.

ORG: None

TITLE: A method for producing tubes with a wall thickness which varies with length.
Class 7, No. 183696

SOURCE: Izobret prom obraz tav zn, no. 14, 1966, 10

TOPIC TAGS: metal tube, metal rolling

ABSTRACT: This Author's Certificate introduces a method for producing tubes with a wall thickness which varies with length. The method consists of varying the distance between the rollers or moving the mandrel during rolling. This method is used on cold rolling pipe mills. A tube with varying wall thickness is used instead of the blank. The thickness of the wall of this tube varies according to a law corresponding to that of the finished product. This is done in order to reduce metal pressure on the rollers and to ensure the production of tubes with a significant difference in wall thickness without cracking.

SUB CODE: 13/ SUBM DATE: 13Jul64

Card 1/1

UDC; 621.774.3.002,28

ACC-NR: AT6034512

SOURCE CODE: UR/0000/66/000/000/0135/0146

AUTHOR: Goncharov, V. P.; Neprochnova, A. F.; Neprochnov, Yu. P.

ORG: none

TITLE: Bottom geomorphology and the deep-seated structure of the Black Sea basin

SOURCE: AN SSSR. Otdeleniye nauk o Zemle. Nauchnyy sovet po kompleksnym issledovaniyam zemnoy kory i verkhney mantii. Glubinnoye stroyeniye Kavkaza (Abyssal structure of the Caucasus). Moscow, Izd-vo Nauka, 1966, 135-146

TOPIC TAGS: Mohorovicic discontinuity, earth crust, granitic layer, basaltic layer, sedimentary complex, seismic velocity, geomorphology / *Black Sea Basin*

ABSTRACT: A large part of this paper summarizes the results of geomorphological investigations conducted in the years 1956-1963 and discusses the tectonics of the Black Sea basin. The article includes schematic geomorphologic and tectonic maps of the Black Sea depression. Part of the paper reviews the deep-seated structure of the depression on the basis of data from deep seismic sounding conducted since 1957. The sedimentary complex is characterized by a low mean velocity of seismic waves (3-3.5 km/sec). The boundaries velocity (V_b) in the granitic layer, found only along the basin periphery, is 5.8-6.3 km/sec. Two stages of this layer with $V_b = 5.8-6$ and 6.3 km/sec were established recently south of the Crimea. The basaltic layer, 12-18-km thick in the eastern and 5-6-km thick in the western Black Sea, is characterized by a boundary velocity of 6.6-7 km/sec. For the

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ACC NR: AT6034512

Mohorovicic discontinuity, $V_b = 8-8.2$ km/sec. A map of the thickness of the sedimentary complex and the Earth's crust is given in the text. The article also contains a schematic cross section of the Earth's crust through the central part of the Black Sea basin. Orig. art. has: 4 figures. [WA-794]

SUB CODE: 08/ SUBM DATE: 26Feb66/ ORIG REF: 017/ OTH REF: 001/

Card 2/2

GONCHAROV, V. P., VDOBIN, I. T., and YERMAKOV, V. M.

"The Effect of Neuroplegic Mixtures on the Ability of Animals to
Withstand Oxygen Starvation and Burn Shock," from the book Theses of the Reports
of the Scientific Session of the Military Medical Academy im. S. M. Kirov,
Tezisy Dokladov Nauchnoy Sessii, 29 Oct-2 Nov 1956, Leningrad.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

GONCHAROV, V. S., ZEMTSOVA, N. M., KULIK, N. F., SEPEROVICH, I. P.

Afforestation - Caspian Sea Region

Forestry on unirrigated soils in the northern Caspian Sea region. Les. khoz. 5 No. 9, 1952

Monthly List of Russian Accessions. Library of Congress. November 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

NOSOV, Aleksandr Ivanovich, dots., kand. tekhn.nauk; BOTVINIK, Boris Sholomovich; BULIN, Vasiliy Petrovich; GONCHAROV, Vasiliy Savel'yevich; SAPELKIN, Vladimir Aleksandrovich; MIKHEYEVA, L.N., red.ind-va; KARLOVA, G.L., tekhn. red.

[Over-all mechanization and automation at repair enterprises of the lumbering industry] Kompleksnaia mekhanizatsiia i avtomatizatsiia na remontnykh predpriatiakh lesnoi promyshlennosti; sbornik statei pod red. A.I. Nosova. Moskva, Goslesbumisdat, 1963. 68 p. (MIRA 16:7)
(Lumbering--Machinery)

GONCHAROV, V.T., student

Mechanized unit on the Tel'man State Farm. Zashch. rast. ot vred.
i bol. 8 no.11:25-27 N '63. (MIRA 17:3)

1. Otdeleniye zashchity rasteniy Moskovskoy sel'skokhozyaystvennoy
akademii imeni K.A.Timiryazeva, vneshtatnyy agronom po zashchite
rasteniy sovkhoza im. Tel'mana, Moskovskaya obl.

GONCHAROV, V.V. [Goncharov, V.V.]

Graphite in building reactors. Jaderna energie 3 no.11:330-337 N 1957.

GONCHAROV, V.V.

Research reactors. Trudy Inst.fiz.AN Gruz.SSR 8:3-14 '62.
(MIRA 16:2)
(Nuclear reactors)

GONCHAROV, V.V.

Conferences and meetings of socialist countries on the use
of reactors for research purposes. Atom. energ. 12
no.4:342-344 Ap '62. (MIRA 15:3)
(Atomic energy research—Congresses)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

GONCHAROV, V.V.

Symposium on pilot power reactors. Atom. energ. 12 no.5:
434-436 My '62. (MIRA 15:5)
(Nuclear reactors)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

S/089/63/014/001/001/013
B102/B186

AUTHOR: Goncharov, V. V.

TITLE: I. V. Kurchatov and the nuclear reactors

PERIODICAL: Atomnaya energiya, v. 14, no. 1, 1963, 10-17

TEXT: I. V. Kurchatov, founder and director of the Institut atomnoy energii (Institute of Atomic Energy) later named after him, was intimately connected with the development of nuclear reactors in the USSR. The first Russian reactor was designed, built and put into operation in April 1952 under his supervision. It was a uranium-graphite reactor of the type MPT (IRT) with a maximum thermal power of 10,000 kw and a maximum thermal neutron flux of $5 \cdot 10^{13} \text{ n/cm}^2 \text{ sec}$ using 10% enriched uranium as the fuel. This was a research reactor serving as prototype and basis of development for others. It was rebuilt in 1957-58 under Kurchatov's direction and its experimental potentialities were increased to a power of 15,000 - 20,000 kw with a maximum flux $1.8 \cdot 10^{14} \text{ n/cm}^2 \text{ sec}$; in the central water-filled channel it even reached $3 - 4 \cdot 10^{14} \text{ n/cm}^2 \text{ sec}$.

Card 1/4

S/089/63/014/001/001/013
B102/B186

I. V. Kurchatov and the ...

The fuel now was 90% enriched uranium. The experience gained with this reactor in the testing of fuel elements were utilized in later developments as e.g. in the reactors of the first atomic power plant, in the atomic power plants at Beloyarsk and Novo-Voronezh and in the ice-breaker "Lenin". Besides numerous physical investigations of graphite and the development of new uranium - graphite reactors like, for example, that of the type MP(IR), Kurchatov enhanced other designs, e.g. the water-cooled water-moderated reactors that are in operation at the above-mentioned power stations of Beloyarsk and Novo-Voronezh. The first water-cooled

water-moderated research reactor in the USSR was a BBP-2(VVR-2) reactor with enriched uranium and a core with no channel. It was the prototype of the BBP-C(VVR-S) reactor and was erected in the Institute of Atomic Energy. The first IRT pool reactor was also built there. Kurchatov earned great merit for the design and construction of a burst reactor

with a flux of 10^{18} n/cm² sec. After a visit in Uzbekistan he made recommendations for the construction of a research reactor in that area. A VVR-S reactor was built and started up at Tashkent in 1959 and Kurchatov was then made a member of the AS UzSSR. Tbilisi, too, received a research

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S/089/63/014/001/001/013

B102/B186

I. V. Kurchatov and the ...

reactor (IRT) with his help, which was put in operation in 1959. A BGP-M(VVR-M) reactor was started up in Kiev in March 1960. Kurchatov strove for exchanges of experience and for coordination of reactor research and engineering throughout the USSR; a special conference convened in March 1960, with A. P. Aleksandrov presiding was devoted to this purpose. It was decided that problems of neutron physics and spectroscopy should mainly be concentrated in the Institute of Atomic Energy, investigations on radiation effects should be carried out at the VVR-M reactor of the Leningradskiy fiziki-tehnicheskiy institut AN SSSR (Leningrad Physico-technical Institute, AS USSR), the chemistry of hot atoms should become a major subject of the Institut fiziki AN GruzSSR (Institute of Physics AS GSSR) and activation analyses should be assigned to the Institut geokhimii i analiticheskoy khimii AN SSSR (Institute of Geochemistry and Analytical Chemistry AS USSR). At the VVR-M reactor of the AS UkrSSR investigations are concentrated mainly on neutron spectroscopy, thermalization and γ -ray studies as well as solid state physics, the latter being also a topic at the Leningrad research establishment. The principal fields of research at the IRT reactor of the Institut fiziki AN Lat.SSR (Institute of Physics AS LatSSR) include

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S/089/63/014/001/001/013
B102/B186

I. V. Kurchatov and the ...

investigations on the spectra of γ -rays and short-lived isotopes and solid state problems. The IRT reactor of the Institut energetiki AN BSSR (Power Engineering Institute AS BSSR) is used to carry out studies in the field of solid state physics, nuclear spectroscopy, radiation stability, etc. Kurchatov was the initiator of the Ob'yedinennyi institut yadernykh issledovaniy (Joint Institute of Nuclear Research) in Dubna. He took part in numerous conferences in- and outside the country including the First Geneva Conference on Peaceful Uses of Atomic Energy in 1955.

SUBMITTED: October 18, 1962

Card 4/4

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

GONCHAROV, V. V.; BABULEVICH, Ye. N.; NIKOLAYEV, Yu. G.; et al

"Construction of Research Reactor MP for Testing Fuel Element and Materials."

report submitted for 2nd Intl Conf Peaceful Uses of Atomic Energy, Geneva,
31 Aug-9 Sep 64.

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

... work on research and development in S&SR

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

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CIA-RDP86-00513R000516010012-5

24003-62
ACCESSION NR: AP4047413

is presently rated 50 MW and it is planned

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

L 24710-66 EWT(m)/ETC(f)/EPF(n)-2/ENG(m) WW

ACC NR: AT6008415

SOURCE CODE: UR/3136/65/000/993/0001/0017

AUTHOR: Ambartsumyan, R. S.; Goncharov, V. V.; Glukhov, A. M.; Yegorenkov, P. M.; Smirnova, R. F.; Shavrov, P. I.

ORG: none

TITLE: Increasing the power of VVR-S reactors 19

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-993, 1965. O povyshenii moshchnosti reaktorov VVR-S, 1-17

TOPIC TAGS: water cooled nuclear reactor, water moderated reactor, reactor fuel element, nuclear reactor power / VVR-S water cooled nuclear reactor

ABSTRACT: The authors consider the possibilities for using slightly modified MR fuel assemblies for increasing the power of VVR-S water-cooled water-moderated reactors. A figure is given showing the construction and dimensions of the MR fuel assembly. The assembly consists of five tubular fuel elements of circular cross section. The heat-transfer area of the MR fuel assembly is 2.35 times as great as assemblies using EK-10 elements. The elements are interchangeable, i.e. they may be

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L 24710-66

ACC NR: AT6008415

placed in any cell of the reactor core. The efficient design of the MR elements assures that 90% of the water passing through the core flows through the fuel assembly. The assembly contains 173 grams of U-235, i.e. 35% more than an assembly with EK-10 elements. The use of these elements makes it possible to irradiate specimens in experimental channels or ampules with an outside diameter of 14 mm. Larger specimens may be irradiated by using fuel assemblies with fewer tubular fuel elements. However, use of the MR fuel assembly cuts down the volumetric fraction of water in the reactor core to 0.65 as against 0.7 when assemblies with EK-10 elements are used. The volumetric water fraction is cut still further to 0.52 by the use of beryllium moderators to reduce nonuniformity in heat release due to localized increases in neutron density in the water spaces between adjacent MR fuel assemblies. The use of these fuel assemblies increases the power of the reactor to 8-11 Mw and the maximum neutron intensity (U-235) to $\sim 9 \cdot 10^{13}$ neutrons/cm² sec. The authors discuss the experimental possibilities of the VVR-S reactor with MR fuel assemblies.

Orig. art. has: 6 figures, 1 table.

SUB CODE: 18/ SUBM DATE: 00/ ORIG REF: 001/ OTH REF: 003

Card 2/2 IV.

L 24711-66 EWT(m)/ETC(f)/EPP(n)-2/ENG(m) WW

ACC NR: AT6008414

SOURCE CODE: UR/3136/65/000/992/0001/0025

AUTHOR: Goncharov, V. V.; Chernilin, Yu. F.; Shavrov, P. I.; Chernyshevich, V. N.;
Yegorenkov, P. M.; Zhigachev, V. M.; Larin, I. I.; Korneyev, V. T.; Yashin, A. F.

ORG: none

TITLE: Remodeling the IRT reactor at the Institute of Atomic Energy imeni I. V.
Kurchatov

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-992, 1965. Rekonstruktsiya
reaktora IRT v IAE im. I. V. Kurchatova, 1-25

TOPIC TAGS: nuclear reactor, reactor fuel element, nuclear reactor core

ABSTRACT: The authors describe steps taken to redesign the IRT reactor at the Institute of Atomic Energy. The following units and systems were altered to increase the power of the reactor, expand its range of experimental possibilities, and improve its operational qualities: 1. fuel elements and reactor core design; 2. cooling system; 3. experimental units; 4. control and shielding system; 5. radiation-monitoring system; 6. special ventilation. Figures are given showing the

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L 24711-66

ACC NR: AT6008414

longitudinal and transverse cross sections of the reactor as well as detailed diagrams of the reactor core and the channel for the "cold" neutron source. The new fuel assemblies have nearly twice as much heat-transfer area as the rod elements formerly used. Each assembly contains 155 grams of 36% enriched U-235. Metallic beryllium is used as the reflector. The core contains 54 cells in all and has a 50 mm lead shield for stopping γ -radiation. The experimental units include horizontal and vertical channels as well as a "cold" neutron source and a thermal neutron "trap". The modifications made in the reactor give a maximum thermal neutron flux (U-235) in the core of $5 \cdot 10^{13}$ neutrons/cm² sec, a maximum fast neutron intensity ($E > 0.5$ Mev) of $9 \cdot 10^{13}$ neutrons/cm² sec, and a power of 4000-5000 kw. The procedure used for disassembly and reassembly operations in the reactor pool is described. Some of the physical and technical characteristics of the modified IRT-M reactor are tabulated. Orig. art. has: 10 figures, 3 tables.

SUB CODE: 18/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 006

Card 2/2 ✓

GD-2

L 39777-66 EWT(m)/ETG(f)

ACC NR: AT6012692

SOURCE CODE: UR/3136/65/000/991/0001/0044

AUTHOR: Goncharov, V. V.; Babulevich, Ye. N.; Shavrov, P. I.; Ryazantsev, Ye. P.
 Novikov, T. M.; Yegorenkov, R. M.; Chervyatsov, A. A.; Frolov, I. P.; Zhigachev,
 V. M.; Pushnin, B. Ts.; Fishevskiy, V. K.; Zakharov, L. K.; Kruglov, A. B.; Karasev,
 N. A.; Goncharov, L. A.

ORG: State Committee on the Use of Atomic Energy SSSR, Institute of Atomic Energy
 im. I. V. Kurchatov, Moscow (Gosudarstvennyy komitet po ispol'zovaniyu atomnoy
 energii SSSR, Institut atomnoy energii)

TITLE: Experience in operation of the MR reactor and tests of fuel elements and
 materials

SOURCE: Moscow. Institut atomnoy energii. Doklady, no. 991, 1965. Opyt eks-
 pluatatsii reaktora MR i provedeniye ispytaniy TVEL i materialov, 1-44

TOPIC TAGS: nuclear research reactor, reactor fuel element, nuclear reactor
 material, nuclear reactor characteristic

ABSTRACT: The authors discuss the loop research reactor MR constructed at the
 Kurchatov Institute of Atomic Energy and intended for the test of fuel elements
 and materials in new atomic installations. It is described in paper P/323 of the
 Third Geneva Conference in 1964. The present article describes in detail its con-

Cord 1/2

L 39777-66
ACC NR: AT6012692

struction and the various test loops in it. The section headings are: I - Introduction. II. Operation of reactor. 1. Certain physical characteristics of the reactor. a) Fuel burnup. b) Efficiency of control valves, scram rods, and movable fuel assemblies. c) Fluxes of thermal and fast neutrons. 2. Control and protection system of the reactor. 3. Technological systems of the reactor. a) Cooling loop for fuel element assembly. b) Cooling loop for the reactor assembly blocks. c) Intermediate (second) cooling loop of reactor. d) Third cooling loop of reactor. e) Water purification system. 4. Fuel assembly operating conditions and conditions for the graphite stacking blocks. 5. Reloading operations. III. Operation of loop installations. Organization and performance of tests on fuel elements and materials. IV. Dosimetric control. Radiation shielding of reactor. The reactor has been in operation since 24 July 1964, and its power has been gradually increased from the initial 20 MW to 30 MW. The usual operation is at 25 MW. The reactor has 3 loop channels with 7 associated experimental channels. Various characteristics of the reactor at different power ratings are tabulated. Major contributions to the adjustment of the MR reactor were made by A. Ye. Alekseyev, B. A. Alekseyev, S. N. Begichev, A. B. Bugayenko, Yu. I. Kovalev, V. K. Lebedev, A. M. Rotankov, V. D. Rusov, N. V. Sarychev, Ye. S. Chernorotov, and Yu. A. Shikov.

Orig. art. has: 13 figures and 6 tables.

SUB CODE: SURM DATE: 00/ ORIG REF: 001

Card 2/27748

ACC NR: AP6019036

(A)

SOURCE CODE: UR/0173/65/018/006/0064/0071

AUTHOR: Varshavskiy, I. L.; Malov, R. V.; Chalabov, V. G.; Goncharov, V. V.

ORG: KTB Minavtotransa ArmSSR

TITLE: Catalytic purification of exhaust gases of carburetor engines on alumino-platinum balls

SOURCE: AN ArmSSR. Izvestiya. Seriya tekhnicheskikh nauk, v. 18, no. 6, 1965, 64-71

TOPIC TAGS: exhaust gas, carbon monoxide, aluminum compound, platinum, FUEL
OXIDATION

ABSTRACT: Oxidation of the toxic components of an incomplete combustion of gases (mostly CO and a small amount of cancerogenic substances) on a catalyst is one of the methods for rendering exhaust gases harmless. The burning of small amounts of CO on the catalyst consists of three processes: diffusion of the CO molecules on the surface of the catalyst, catalytic oxidation of CO into CO₂, and diffusion of the CO₂ molecules into the atmosphere. During continuous oxidation of CO all of these processes occur simultaneously. The quasistationary method offered by D. A. Frank-Kamenetskiy (Zhurnal fizicheskoy khimii 13, 756, 1939) was used during the study of the oxidation of CO on Al-Pt balls. The study was made in a special apparatus consisting of two parts. One part was used to study the changes in the volume of flowing gas, and the other to study the degree of neutralization of the entire amount of the engine's exhaust gases.

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ACC NR: AP6019036

The MZMA-407 carburetor engine was used as a generator for the gases. The catalyst was charged into the reactor (see Fig. 1, where 1 is the body of the reactor, 2 is the reactor screen, 3 is the cover, 4 is a pipe for taking samples, and 5 is a thermocouple) between two stainless steel screens. Platinum applied to the Al_2O_3 spheres (diameter 3-5 mm) was used as a catalyst. One gram of Pt was needed for producing 1 kg of catalytic elements. Two types of catalysts were tested: (1) with surface coating of the balls with Pt, and (2) with surface coating with part of the Pt penetrating deep into the grains of the spheres (internal diffusion).

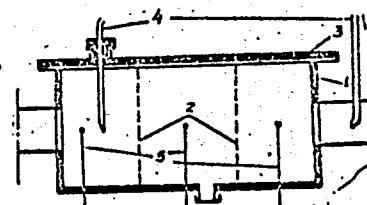


Figure 1.

The process of combustion was investigated in both types of catalyst at a temperature $\leq 400^\circ\text{C}$. The curves were plotted in coordinates $a = F(t)$, where $a = [(c_i - c_f)/c_i] \cdot 100$, t is the temperature, and c_i and c_f are concentrations of CO in the gases at the entrance and exit of the reactor, respectively. The interpretation of the curves showed that at $\leq 200^\circ\text{C}$ the reaction occurred in the kinetic region. At gas temperatures $> 300^\circ\text{C}$ the diffusion of the components to the active centers of the catalytic elements played a predominant part in combustion. It was shown that the quantity of catalytic elements necessary for the entire detoxication of exhaust gases could be calculated from the criterial equation $Sh = 0.05 Re^{0.7}$, where Re is the Reynolds criterion, Sh is the Sherwood crit. $= \beta_c D/k_c$, β_c is the constant of the diffusion rate reduced to the difference in concentrations, d is the controll-

Card 2/3

ACC NR: AP6019036

ing parameter, and k_c is the diffusion coefficient reduced to the concentration gradient and controlled by Fick's law. The neutralizing apparatus designed from this formula provided for complete purification from CO of the exhaust gases of the GAZ-51 automobile under every possible operating condition. Orig. art. has: 4 fig., 4 formulas, and 1 table.

SUB CODE: 07/ SUBM DATE: 07Jan65/ ORIG REF: 003

Card 3/3

GONCHAROV, V. V.

DECEASED

1963/1

c. 1962

REFRACTORIES
(metals)

see ILC

MATUSKOV, S.I., dots., GONCHAROV, V.V., KHARCHENKO, A.M., SINITSYNA, L.N.

Tissue therapy in a number of types of chronic dermatitis. Vrach.
delo no.9:973 S'58 (MIRA 11:10)

1. Kafedra kozhno-venericheskikh bolezney (zav. - dots. S.I. Matuskov)
Odesskogo meditsinskogo instituta:
(SKIN—DISEASES)
(TISSUE EXTRACTS)

CC NR: AT7003998

SOURCE CODE: UR/0000/66/000/000/0123/0131

AUTHOR: Goncharov, V. Ya.; Moskalev, V. A.; Okulov, B. V.;
Ponomarev, V. P.; Skvortsov, Yu. M.; Slupskiy, A. M.; Shashov, V. V.;
Shestakov, V. G.

ORG: none

TITLE: Stereobetatron for 15 Mev

SOURCE: Mezhvuzovskaya konferentsiya po elektronnym uskoritelyam. 5th,
Tomsk, 1964. Elektronnyye uskoriteli (Electron accelerators); trudy konferentsii.
Moscow, Atomizdat, 1966, 123-131

TOPIC TAGS: stereobetatron, betatron, mev accelerator

ABSTRACT: A two-chamber 15-Mev stereobetatron was built in the Tomsk
Polytechnic Institute; it is designed for two cross bremsstrahlung beams with a
rate of 1000 r/min. m in each beam. The electromagnet and pulsed-supply
system of the accelerator are briefly described. Designed along conventional

exc.
kept under a
3-microsec 30-kV
current pulses up to
 8×10^{-8} torr) by titanium p
SUBCODE: 09, 20 / SUBM DATA

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CIA-RDP86-00513R000516010012-5

Card 2/2

AMOSOV, V.N.; POMERANTS, D.M.; GONCHAROV, Ya.P.

Selecting protective atmospheres for the prevention of decarburization in annealing perlitic malleable cast iron. Avt.prom. no.12:
28 D '60. (MIRA 13:12)

1. Yaroslavskiy motornyy zavod.
(Cast iron—Heat treatment)
(Protective atmospheres)

UGAY, Ya.A.; MARSHAKOVA, T.A.; GONCHAROV, Ye.G.

Effect of the nature of the chemical bond on the solubility
of inorganic substances in the solid state. Zhur.neorg.khim.
8 no.1:177-185 Ja '63. (MIRA 16:5)
(Chemical bonds) (Solutions, Solid)

L 2787-66 EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD

ACCESSION NR: AP5022260

UR/0363/65/001/007/1104/1108
546.682'19'18-165

20
19

B

AUTHOR: Ugay, Ya. A.; Goncharov, Ye. G.; Bolkhovitina, N. B.; Shvyreva, T. N.

TITLE: Preparation of InAs_xP_{1-x} solid solutions of constant composition along the length of the ingot

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 7, 1965, 1104-1108

TOPIC TAGS: solid solution, indium alloy, arsenic, phosphorus alloy

ABSTRACT: The authors propose a simple method for preparing solid solutions of constant composition along the length of the ingot, and illustrate it with the synthesis of InAs_xP_{1-x}. The method in maintaining the concentration of arsenic and phosphorus, i.e., their partial pressures, constant during the entire course of crystallization of the solid solution in the gas phase. This is done by placing solid phosphorus and arsenic in the reaction vessel at some distance from the indium; at a constant temperature, not only the partial pressures of phosphorus and arsenic, but also their ratio remains constant. If necessary, this ratio can be varied by changing the temperature of the section of the reaction ampul which contains phosphorus and arsenic. The method is applicable only to the formation Card 172

L 2787-66

ACCESSION NR: AP5022260

of isovalent solid solutions involving two volatile components; in the case of one such component, the method is not applicable, for example, to the preparation of $GaxIn_{1-x}As$ solid solutions of constant composition along the length of the ingot. Orig. art. has: 6 figures and 1 table.

ASSOCIATION: Voronezhskiy gosudarstvenny universitet (Voronezh State University)

SUMMITTED: 03Mar65

ENCL: 00

SUB CODE: SS, IC

NO REF SOV: 006

OTHER: 007

Card 2/2 *hd*

ACC NR: AT60288C8

(N)

SOURCE CODE: UR/3222/65/000/008/0100/0103

AUTHOR: Strekalov, S. S. (Candidate of physico-mathematical sciences); Goncharov, Ye. I. (Junior research associate)

ORG: none

TITLE: Evaluation of accuracy in calculations of sea waveheight by considering different numbers of spectral components

SOURCE: Moscow. Gosudarstvennyy proyektno-konstruktorskiy i nauchno-issledovatel'skiy institut morskogo transporta. Trudy, no. 8(14), 1965. Volnovyye issledovaniya; inzhenernyye izyskaniya (Wave studies; engineering research), 100-103

TOPIC TAGS: ocean wave, spectrum analysis, ocean dynamics

ABSTRACT: The problem of selecting an optimum number of spectral components for calculating average heights of sea waves is solved on the basis of a simple mathematical model. The error resulting from the selection of a given number of components is found. The selected mathematical model is a theoretical solution for the spectrum of refracted waves in a coastal zone with rectilinear isobaths. It is found that the minimum number of directional spectrum components, for the simplest case, that have to be considered is three in order that the error does not exceed 10%.

Orig. art. has: 2 figures.

SUB CODE: 08/ SUBM DATE: none/ ORIG REF: 002

Card 1/1

SOV/35-59-8-6710

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1959,
Nr 8, p 87

AUTHOR: Goncharov, Ye.I.

TITLE: Goniometric Surveying With Automatic Transfer of Initial(Back)
Direction

PERIODICAL: Tr. Vses. nauchn.-tekhn. soveshchaniya po marksheyd. delu,
1956, Moscow, Ugletekhizdat, 1958, pp 529 - 532

ABSTRACT: When the proposed method of surveying is employed, the clamping
micrometric device of the azimuth horizontal circle of a theo-
dolite is separated from the goniometric part and is made in the
form of an independent device, a fixing headpiece. On this device
is put on, in a strictly definite position, either a goniometer or
a special signal functioning both as a signal and as an auxiliary
attachment for orienting the fixing headpiece. This orientation
is brought about by aiming at the back point of the traverse
through an auxiliary sighting telescope fastened to the signal.
The survey is conducted on cantilevers with lost points by two

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Goniometric Surveying With Automatic Transfer of Initial (Back) Direction

attendants instead of three as usually. The foreground point is attended by an assistant who mounts a signal on it and directs it by aiming at the instrument standing on the preceding point (in the vertex of the angle) being attended by the observer. The aiming of the goniometer at the back point is not performed at all, since the orientation of the instrument is carried out automatically during its mounting on the fixing headpiece. This method makes it possible to considerably accelerate the surveying of traverses without deteriorating the accuracy. During a test survey, a 250-m long traverse consisting of 18 points was covered in 45 minutes.

K.K. Glazenap

Card 2/2

AGROSKIN, A.A.; GONCHAROV, Ye.I.

Heat capacity of coal. Koks i khim. no.7:8-13 '65.

(MIRA 18:8)

1. Vsesoyuznyy zaochnyy institut pishchevoy promyshlennosti.

AGROSKIN, A.A., doktor tekhn.nauk; BARSKIY, Yu.P., kand.tekhn.nauk;
GONCHAROV, Ye.I., inzh.; KANAVETS, P.I., kand.tekhn.nauk

Measurement of the heat capacitance of solid fuels heating
to temperatures up to 1000°C. Izv.vys.ucheb.zav.; energ.
8 no.12:51-57 D '65. (MIRA 19:1)

1. Vsesoyuznyy zaochnyy institut pishchevoy promyshlennosti;
Institut goryuchikh iskopayemykh, Moskva, i Vsesoyuznyy
nauchno-issledovatel'skiy institut fiziko-tehnicheskikh i
radiotekhnicheskikh izmereniy. Predstavlena kafedroy
energetiki. Submitted December 23, 1964.

AGROSKIN, Anatoliy Abramovich. Prinimali uchastiye: GRIGOR'YEV,
S.M., doktor tekhn. nauk; PITIN, R.N., doktor tekhn.
nauk; PETRENKO, I.G., kand. khim. nauk; GOL'BERG, I.I.,
kand. fiz.-matem. nauk; ZAGREBEL'NAYA, V.S., kand.
tekhn. nauk, dots.; GONCHAROV, Ye.I.

[Physics of coal] Fizika uglia. Moskva, Nedra, 1965.
351 p. (MIRA 19:1)

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5

SAMGIN, P.A.; SHESTOPAL, Ya.V.; ZOSIMOVSKAYA, T.V.; GONCHAROV, Ye.R.

Chemical shrub control from the airplane. Zashch. rast. ot vred.
i bol. 6 no.4:20-21 Ap '61. (MIRA 15:6)
(Kalinin Province—Clearing of land)

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000516010012-5"

POPOV, S.N., kand. med. nauk; GONCHAROV, Ye.S.

Operation of a fluorographic service in conjunction with the general
X-ray network. Zdrav. Res. Feder. 3 no.5:20-22 My '59.
(MIRA 12:7)

1.Iz oblastney rentgenologicheskoy stantsii (zav. S.N. Popov). pri
Tambovskoy oblastney bol'nitse (glavnnyy vrach A.I. Yevteyev).
(RADIOGRAPHY)

GONCHAROV, Ye.S., kand.tekn.nauk.

Method of calculating for vertical cylindrical centrifugal vibrating
sieves. Trakt. i sel'khozmasch. no.9:21-23 S '65.

(MIRA 18:10)

1. Ukrainskiy nauchno-issledovatel'skiy institut mekhanizatsii i
elektrifikatsii sel'skogo khozyaystva.

GONCHAROV, Ye. V.

SAVCHENKO, G.S.; GONCHAROV, Ye. V.

Study of the interaction of gallium chloride with tartaric acid
and its sodium salts. Zhur. neorg. khim. 1 no.8:1804-1825 Ag '56.
(Gallium chlorides) (Tartaric acids) (MLRA 9:11)

GONCHAROV, Ye. V.

GONCHAROV, Ye. V.

(1)
Abstract:Yashin, V. P., Korobtseva, T. S.,
Tselentsevsky, E. B.
Soviet Conference on the Methods of Investigating the
Complex Formation in Solutions (Sverdlovsk-doklady
po metodom simechiva kompleksotvorstviya v rastvorakh)Soviet Conference on the Methods of Investigating the
Complex Formation in Solutions (Sverdlovsk-doklady
po metodom simechiva kompleksotvorstviya v rastvorakh)Institut Vsesoyuznaya sovremennoy khimii i
khimicheskoy tekhnologii, 1956, tr. 1, pp. 173 - 174 (rus.)

PHOTOGRAPH

ABSTRACT:

From February 16 to 21, 1956 a conference discussion took place at the town of Yekaterinburg on methods of investigating the complex formation in solutions. It was called on a resolution of the Fifth All-Union Conference on Inorganic Chemistry or the Institute of Chemistry, USSR Academy of Sciences. More than 200 persons attended the conference. More than 100 delegates from various towns of the USSR, as well as the conference methods of determining the composition of the complexes in solutions were discussed, as well as the methods of calculating the instability constants according to experimental data and problems concerning the influence of the solvent upon the processes of complex formation.

M. M. Zemskov, "Physical and Chemical Analysis of the Systems with 3-Dialated Compounds in the Solution"; the results of a systematic investigation in copper-sulfonate-salicylic acid systems by methods of spectrophotometry and titration with the optical method were dealt with. In the lecture by D. S. Pustilnik, the behavior of organic compounds in aqueous organic solvents was described. Besides the determination of the composition and stability of the complexes the physical and chemical properties, the chemical nature and the structure of the complex compounds must be investigated.

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1.1. Akhiezer and V. I. Vitol'shchikov in their lecture "Investigation of the Polymerization of Zinc-Poly Acids in Solutions" presented experimental results of the investigation of the polymerization in solutions of acrylic acid. The authors proved that especially the polybasic acid within a certain range of pH values and the concentrations exists as a number of isomers that can be expressed by an overall formula $\text{HO}_2(\text{HCOO})^{n-2}$. In the lecture by M. V. Aksel'rod and V. B.

Spiratovskiy investigation results on basically soluble latex obtained the complex formation in solutions by means of the potentiometric method were announced for systems with zinc, cadmium and lead. In the evaluation of their results the authors employed the method of the table difference. The calculation of the consecutive constants was carried out according to the interpolation formula by Jerton, M. A. Chancolleterre. Held a lecture on "pH Measurement Method for Evaluation of Gelation With the System CuCl₂ - H₂O in Investigating Complex Copper Compounds in Saturated Solutions". It was found that the emulsion at the bottom of the liquid is more basic than the solution. Furthermore, the increase in acidity of the solution from the viewpoint of the formation of hydroxy-alum complexes in the solution was explained.

V. F. Samoilov spent the discussion with his lecture. He pointed out the necessity of utilizing the concepts formed during the investigations of the polymerization in organic chemistry in the chemistry of the Polymeric displacer. A. G.

Gritsayrvaldi said that the new approach of the hydrolysis

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Soviet Discussion on the Methods of
Investigating the Complex Formation in Solutions

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investigation as developed by the Scandinavian school is of high value. He also pointed to the necessity of attaining the kinetics of the polymerization process and a quantitative determination of the strength of the polymer. A. N. Babilo pointed out that the study of the polymer structure was necessary. M. P. Komar mentioned in his lecture that the rather widely spread polarization type according to the scheme nucleophilic + chain scission is not obtained in all cases.

The following scientist took part in the discussion V. I. Golubeva, A. V. Abler, I. V. Tsvetkov, I. V. Tsvetkov and E. N. Tsvetkov. A. V. Babilo then discussed in his lecture "Methods of Determining the Dissociation Constants of the Complex Groups in Solutions" the main principles of determining the instability constants. K. P. Komar discussed in his lecture "Calculation Methods of the Instability Constants of the Complex Compounds According to Experimental Data" the possibility of using the known calculation methods of the instability constants for calculating values of the complex formation in solution. If several mononuclear complexes are formed in the displacement reaction by above and below the (complexed by the ligand) values be recommended for the calculation of the instability constant. The lecturer discussed the dissociation methods of the polyimide proposed by J. Ferreira, Leder, Rossetti, Bischard, McMillan and other authors. The constants calculated in this way are not very accurate. It was proved that the method of successive approximations can lead to wrong conclusions as to the chemical processes taking place in the system investigated. The most probable value of the physical constants can be obtained by the method of the least squares. J. V. Pitskern, Ye. N. Sutatov and L. I. Vinogradova described the determination methods of the instability constants of the ordinary complexes of alcohols, phenols and ions which are based on the investigation of the equilibrium displacements of the complex formation by silver ions. Ye. N. Sutatov, Ye. N. Tsvetkov and G. S. Savchenko held a lecture on "The Role of the Zinc Factor in the Investigation of the Complex Formation". In the discussion on the lecture A. V. Grishkov mentioned that due to the slow determination of the instability constants (palladium and cobalt complexes) can often not be employed. A. V. Abler pointed out the necessity of deriving direct methods of proving the existence of intermediate forms in stepwise complex formation. E. N. Tsvetkov also mentioned that the instability constants of ordinary dissociating complexes can be calculated from thermodynamic data.

L. P. Adamovich, A. M. Golub and others took part in the discussion on the lecture.

A. V. Babilo requested inclusion in the next conference on the determination methods of the instability constants should be discussed by the example of actual cases. This should be a wide divergence of the values of the constants different substances. In the discussion on the lecture A. V. Grishkov stressed that in the determination of the instability constants all chemical equilibrium should be taken into account that render complex the complex formation process as the solution, especially the hydrolytic processes of the central ion and the addition. In the lecture delivered by V. N. Lebedeva and A. P. Zemlyuk "Application of the Distillation Method to the Investigation of the Stability Constants

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CONFERENCE DEDICATED TO THE METHODS OF
INVESTIGATING THE COMPLEX FORMATION IN SOLUTIONS

207/135-58-3-20/20

of some Thorium Complex Compounds," resulted obtained from the experimental investigation of the distribution of thorium compounds in the systems: Acetylacetone - benzene - water, and 2-oxyl-1,4-naphthoquinone - chloroform - water. From these data the instability constants of the thorium complexes with acetylacetone and 2-oxyl-1,4-naphthoquinone were calculated. I. V. Taranayev, O. S. Savchenko and Ye. V. Gasharov held a lecture on the application of the solubility constants for the determination of the stability of complex compounds in solutions. In this lecture also other methods were discussed: complex formation processes in the solution of organic acids, measurement of the osmotic pressure, titration, etc. As well as at the head of science, A. D. Bakhshiev held a lecture on "The Application of the Solubility Constants in Studying the Phthalocyanine Complexes of Metals". He gave the determined quantitative characteristics of the transition of the phthalocyanine derivative of cobalt, nickel, copper and silver, as well as of the free phthalocyanine into the sulfuric acid solution for the theoretical reasoning, and as an experimental proof of the existence of σ -bonds in the complexes investigated. These characteristics were derived him as a proof of new electronic formulas of phthalocyanines and its complex derivatives.

In the lecture by I. L. Krupitskii on "The Method of the Two-Stage Method of Investigating the Formation and Properties of Organometallic Compounds" it was proved that this method is possible to determine the number of complexes formed in the system, their composition and relative stability. V. I. Shchegolev, A. K. Babko, N. P. Kozar', V. S. Buzarin and I. I. Tar'yan took part in this discussion. In the lecture delivered by I. L. Krupitskii on "The Method of the Two-Stage Method of Investigating the Formation and Properties of Organometallic Compounds" it was proved that this method makes it possible to determine the composition and instability constants of the complexes. In the case of a large chlorine and bromine ion excess complexes with the coordination number 3 were obtained.

I. L. Adzhurichin mentioned a new manipulative method in the spectrophotometric investigation of the complex compounds that can be used in systems with the formation of coordination of one single complex. This method makes it possible to determine the composition and instability constants of the complex. In the lecture delivered by I. Z. Tsvirkirsky and V. D. Korshakova the application of crystal-line fields for the determination of the theory of crystal-structure of the chloride complexes of cobalt, nickel and copper according to the absorption spectra of these complexes was discussed. It was proved that in a hydrochloric acid concentration above 5 mol/liter in the solution there exists an equilibrium between the tetrahedral and octahedral form of the cobalt chloride complex. Yu. P. Maslyukova proved in his lecture "The Application of Radioactive Isotopes in the Investigation of the Solution Equilibrium in Solutions of Complex Compounds" the possibility of using data on the isotope exchange to clarify the structure of the complex and mechanism of the hydration processes. V. Eliseev mentioned in his lecture the use of radioactive isotopes in the study of tin and antimony complexes in non-aqueous solutions. V. A. Abler, V. M. Tolmachev, V. I. Kunkov and G. V. Goryainov took part in the discussion of the lectures. The services of employing the theory of the crystalline field in explaining the results obtained from the absorption spectra of the com-

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CONFERENCE DISCUSSION ON THE METHODS OF
INVESTIGATING THE COMPLEX FORMATION IN SOLUTIONS

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plex compounds was stressed. In the lecture delivered by I. A. Shabek on "The Investigation of the Complex Formation by the Method of the Dielectric Permeability and the Polarimetric Method, the Principles of the methods mentioned were presented. This method was employed for investigating the complexes of the type of the coordination products. The lecture delivered by I. A. Shabek and Yu. Ye. Afanasyev "Employing the Method of Dielectric Constants for Investigating Complex Compounds of the Type of Crystal Solvates in Solutions" dealt with the investigation of the solvates of lanthanum and cerium chlorides with ketones, as well as with the study of the compounds formed in heterogeneous systems with tributyl phosphate and nitric acid. V. P. Tropova gave in her lecture "The Polarimetric Method of Investigating the Complex Formation in Solutions" a survey of the applications of the polarimetric method in the study of the complex compounds, and illustrated several characteristic features of this method. In the lecture delivered by F. M. Sushchikova "The Methods of Investigation of the Complex Compounds" a survey of the spectroscopic method was given, and its applicability in the study of several organic substances was proved. A. N. Gordin described the results of his investigations of this complex compounds of several metals. A vivid discussion took place at the lecture held by Ya. A. Piatkov and Yu. Ye. Piatkov considered the spectroscopic method of investigating complex compounds to be of considerable value. F. M. Sushchikova pointed out that the publication of the surveys on individual methods of investigating the complex formation reactions would be desired; this concerns especially the polarimetric method. The spectroscopic method should be brought to a level that makes the calculation of the equilibrium constants of the processes to be investigated possible. The problem of calculating the experimental results becomes more and more important. Many scientists use the instability constants without taking into account the way in which they had been obtained. The calculation methods employed by M. Dorf are one step back, as compared to those employed at present. In his lecture M. P. Lomar' related out the extremely great importance of the mathematical

evaluation of the results obtained, as well as of the plotting that are experimentally well investigated, one or two systems that are experimentally well investigated, and to evaluate it is possible to obtain according to different methods so that it is possible to obtain and evaluate them. Ye. I. Tur' gave part in the discussion. Ya. A. Piatkov discussed the lecture given by M. Dorf on the State of Equilibrium in the Solvation of Complex Compounds. He influenced exerted by the solvent upon the solvation of the solutes, upon the solvation of the solutes, and the effect of the solvent upon the dissociation of the complexes formed upon a number of other processes. The influence exerted by the dielectric constant upon the complex formation process was discussed. It was concluded that a direct relation does not exist, and that the chemical nature of the solvent must be taken into account. A. V. Aban' and L. V. Eshchikova held a lecture on "The Spectroscopic Investigation of Michel Cebal's Pyridinates" in Various Solvents". The instability constants of the complexes were determined and it was proved that the

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Conference Materials on the Methods of Determining the Complex Formation in Solutions

stability of the hydrates is changed in dependence on the solvent. Ya. I. Shar'yan in his lecture "The Influence of the Reagents Upon the Composition and Stability of Complexes" discussed the polarimetric investigation method of the chloride and thiocyanate complexes of lead in aqueous ethanol solutions at different ratios of the non-aqueous solvent and of constant ionic strength. A step-wise character of the complex formation was found as well as the mutability of the complexes of the reagents. The influence of additional components of the reaction on the stability of the developed complexes was proved.

V. V. Tsvetkov on the "Investigation of Aqueous Complexes in Non-Aqueous Media" attention was devoted to the methods of qualitative recording of the deviation effects in the complex formation. The applicability of the polarimetric method in the determination of the composition and stability of the aquo complex in mixed solvents was proved and experimental material on the thermodynamics of the dissociation of the cationic-aquo complexes in aqueous ethanol solutions was presented. V. N. Golosheker, V. I. Krasneter

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I. V. Samoilova stressed in their lecture the necessity of a more complete and general investigation of the solvation processes. A. E. Basko and A. N. Delin pointed out the great importance of the investigations of the complex formation equilibrium in non-aqueous solutions, and made several critical comments on the lecture by Ya. I. Shar'yan. The following scientists took part in this discussion: L. P. Adamovich, G. I. Matyshevskaya, A. P. Molchan and A. G. Gorshkov. As the final meeting of the conference A. A. Gorshkov, Corresponding Member, As USSR, said in his speech that such a conference was very urgent, and detailed discussions of the development of the methods of the investigation of the complexes as well as of the method used in the study of the qualitative characteristics of the strong complex forma-

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CIA-RDP86-00513

5(2)

SOV/78-4-7-15/44

AUTHORS: Savchenko, G. S., Goncharov, Ye. V.

TITLE: On the Tartrates of Indium (O tartratakh indiya)

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 7,
pp 1558-1567 (USSR)

ABSTRACT: The reaction of indium chloride in an aqueous solution with tartaric acid and sodium tartrate was investigated in iso-molar series of from 0.1 mol/l to 0.5 mol/l. The results obtained by measuring the e.m.f., the hydrogen ion concentration, and the optical density are shown by figures 1-3 and by tables 1 and 2. The development of hydrogen ion concentration with a further addition of tartaric acid indicates a complex formation in stages. The primary stable complex ion has the highest stoichiometric ratio 1 : 1, the less stable ion with maximum saturation has the ratio 4 : 1 (tartaric acid : InCl_3).

Figure 4 shows the time-dependent precipitation in the case of varying tartaric acid concentration, and figure 5 - the solubility of the In^{3+} -ion under the same conditions. Indium tartrate forms a precipitate in solutions with a ratio

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On the Tartrates of Indium

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(tartaric acid : InCl_3) of $n = 0.7$ and $n = 1$. The precipitate is amorphous and crystallizes only after several days. At $n > 2$ the precipitate again dissolves. The analysis of the precipitates is given in table 3, the molar ratio between $\text{C}_4\text{H}_4\text{O}_6^{2-}$ and In^{3+} is 1 : 1. Also the thermograms of the precipitates obtained at $n = 0.7$ and $n = 2$ (Figs 7,8) prove the same character of the precipitates. Tables 4 and 5 show the analyses of precipitates which were dried above P_2O_5 . The OH^- content determined by difference is 0.65 instead of 1, so that the formation of a dimer with the elimination of water is assumed. A comparison with the tartrates of aluminum and gallium shows that indium differs from these elements by complex formation in stages. A salt of little solubility is formed, which dissolves in the excess of tartrate. The oxy groups of the tartrate participate in complex formation. There are 8 figures, 5 tables, and 6 references, 4 of which are Soviet.

SUBMITTED: April 8, 1958
Card 2/2

ZVYAGINTSEV, O.Ye.; GONCHAROV, Ye.V.

Interaction of neodymium chloride with glycine. Zhur. neorg. khim. 7 no.8:1880-1891 Ag '62. (MIRA 16:6)

(Neodymium chloride) (Glycine)

ZVYAGINTSEV, O.Ye.; GONCHAROV, Ya. V.

Interaction of neodymium chloride with α -alanine. Zhur.
neorg. khim. 7 no.8:1892-1901 Ag '62. (MIRA 16:6)

(Neodymium chloride) (Alanine)